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Nata

LumCAT: 2-2323-M	
Luminaire: 92.70.131.00	
Report No: 210807-B008	Voltage(V): 33.5900
Test No: 210807-C008	Current(A): 0.4700
LampCAT: SAMSUNG LC026D LES14.5	Power (W): 15.7870
Lamp flux(lm): 2465.7	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 570	Width(mm): 45
Phm Type: C	Height(mm): 20

Photometric Results

Lumens(lm): 2190.19
Efficiency(%): 88.83%
Lumens(lm)/Power(W): 138.73
Central intensity(cd): 2808.984
Maximum intensity(cd): 4364.352
Angle of maximum intensity: C=67.5 γ =14.0
Beam Angle(50%Imax): [C0/180]Total=48.8
[C90/270]Total=39.9
Field angle(10%Imax): [C0/180]Total=66.6
[C90/270]Total=61.5
Maximum s/h(1/2): C0_180=0.72 C90_270=0.99
Maximum s/h(1/4): C0_180=0.72 C90_270=0.82
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 88.83%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.266%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2868.065	0.000	0	.000%	.000%
1.0	2869.446	2.745	2.745	.111%	.125%
2.0	2892.825	8.271	11.016	.335%	.503%
3.0	2918.257	13.898	24.914	.564%	1.138%
4.0	2944.175	19.623	44.537	.796%	2.034%
5.0	2971.512	25.449	69.986	1.032%	3.195%
6.0	2998.699	31.375	101.362	1.272%	4.628%
7.0	3017.148	37.340	138.702	1.514%	6.333%
8.0	3031.153	43.287	181.988	1.756%	8.309%
9.0	3045.605	49.249	231.237	1.997%	10.558%
10.0	3040.414	55.076	286.313	2.234%	13.073%
11.0	3030.331	60.659	346.973	2.460%	15.842%
12.0	3007.886	66.006	412.979	2.677%	18.856%
13.0	2972.632	70.974	483.953	2.878%	22.096%
14.0	2924.531	75.483	559.436	3.061%	25.543%
15.0	2865.824	79.493	638.928	3.224%	29.172%
16.0	2791.245	82.892	721.82	3.362%	32.957%
17.0	2695.864	85.449	807.269	3.466%	36.858%
18.0	2593.687	87.213	894.483	3.537%	40.840%
19.0	2480.903	88.287	982.77	3.581%	44.871%
20.0	2363.974	88.675	1071.445	3.596%	48.920%
21.0	2243.273	88.468	1159.913	3.588%	52.960%
22.0	2120.742	87.697	1247.61	3.557%	56.964%
23.0	2001.435	86.494	1334.104	3.508%	60.913%
24.0	1868.159	84.603	1418.708	3.431%	64.776%
25.0	1731.053	81.838	1500.546	3.319%	68.512%
26.0	1600.926	78.652	1579.197	3.190%	72.103%
27.0	1460.637	74.902	1654.099	3.038%	75.523%
28.0	1305.160	70.024	1724.123	2.840%	78.720%
29.0	1148.802	64.203	1788.326	2.604%	81.652%
30.0	1016.322	58.458	1846.784	2.371%	84.321%
31.0	865.450	52.367	1899.151	2.124%	86.712%
32.0	723.245	45.514	1944.665	1.846%	88.790%
33.0	581.272	38.432	1983.097	1.559%	90.545%
34.0	482.658	32.198	2015.294	1.306%	92.015%
35.0	377.967	26.728	2042.022	1.084%	93.235%
36.0	301.707	21.641	2063.663	.878%	94.223%
37.0	222.176	17.086	2080.749	.693%	95.003%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	166.330	12.968	2093.717	.526%	95.595%
39.0	120.245	9.782	2103.499	.397%	96.042%
40.0	87.426	7.243	2110.742	.294%	96.373%
41.0	66.897	5.495	2116.237	.223%	96.624%
42.0	50.607	4.269	2120.506	.173%	96.818%
43.0	39.807	3.349	2123.855	.136%	96.971%
44.0	32.711	2.737	2126.592	.111%	97.096%
45.0	27.524	2.315	2128.907	.094%	97.202%
46.0	23.770	2.006	2130.913	.081%	97.294%
47.0	22.168	1.827	2132.74	.074%	97.377%
48.0	20.843	1.739	2134.479	.071%	97.456%
49.0	19.853	1.671	2136.15	.068%	97.533%
50.0	18.979	1.619	2137.769	.066%	97.607%
51.0	18.195	1.573	2139.342	.064%	97.678%
52.0	17.500	1.532	2140.874	.062%	97.748%
53.0	16.828	1.493	2142.367	.061%	97.817%
54.0	16.331	1.462	2143.828	.059%	97.883%
55.0	15.920	1.440	2145.268	.058%	97.949%
56.0	15.551	1.422	2146.69	.058%	98.014%
57.0	15.099	1.401	2148.092	.057%	98.078%
58.0	14.811	1.383	2149.475	.056%	98.141%
59.0	14.550	1.373	2150.847	.056%	98.204%
60.0	14.300	1.363	2152.21	.055%	98.266%
61.0	14.132	1.357	2153.567	.055%	98.328%
62.0	13.982	1.355	2154.922	.055%	98.390%
63.0	13.803	1.351	2156.273	.055%	98.452%
64.0	13.631	1.346	2157.619	.055%	98.513%
65.0	13.452	1.340	2158.96	.054%	98.574%
66.0	13.302	1.335	2160.294	.054%	98.635%
67.0	13.232	1.334	2161.629	.054%	98.696%
68.0	13.119	1.335	2162.964	.054%	98.757%
69.0	13.063	1.336	2164.299	.054%	98.818%
70.0	12.996	1.338	2165.638	.054%	98.879%
71.0	12.888	1.338	2166.975	.054%	98.940%
72.0	12.817	1.337	2168.312	.054%	99.001%
73.0	12.724	1.336	2169.648	.054%	99.062%
74.0	12.600	1.331	2170.979	.054%	99.123%
75.0	12.417	1.322	2172.301	.054%	99.183%

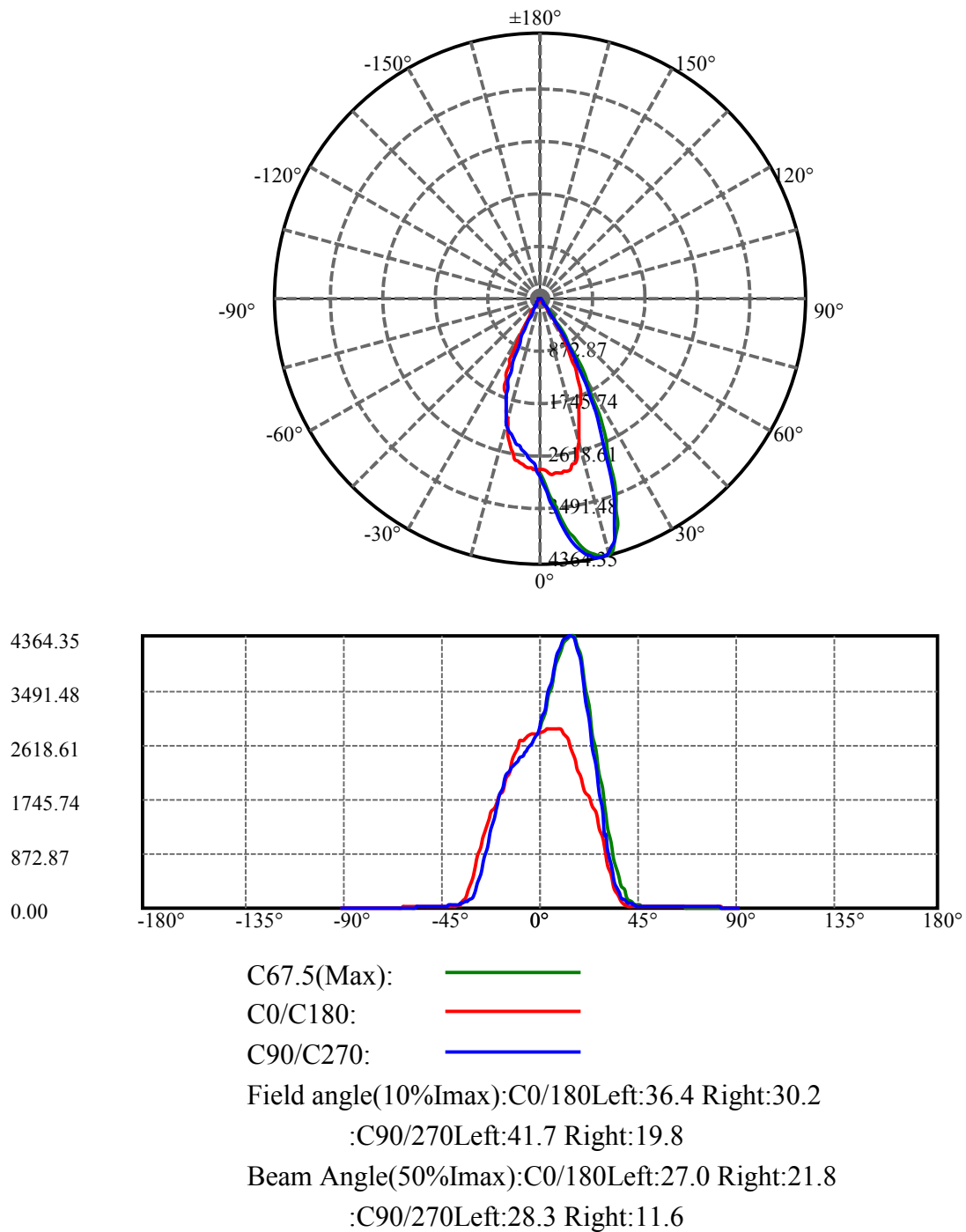
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.309	1.313	2173.613	.053%	99.243%
77.0	12.223	1.308	2174.921	.053%	99.303%
78.0	12.096	1.302	2176.223	.053%	99.362%
79.0	11.936	1.291	2177.514	.052%	99.421%
80.0	11.775	1.278	2178.793	.052%	99.480%
81.0	11.570	1.262	2180.055	.051%	99.537%
82.0	11.263	1.238	2181.293	.050%	99.594%
83.0	10.987	1.210	2182.503	.049%	99.649%
84.0	10.677	1.180	2183.683	.048%	99.703%
85.0	10.300	1.145	2184.828	.046%	99.755%
86.0	10.076	1.114	2185.942	.045%	99.806%
87.0	9.852	1.091	2187.032	.044%	99.856%
88.0	9.620	1.067	2188.099	.043%	99.905%
89.0	9.516	1.049	2189.148	.043%	99.953%
90.0	9.456	1.040	2190.188	.042%	100.000%

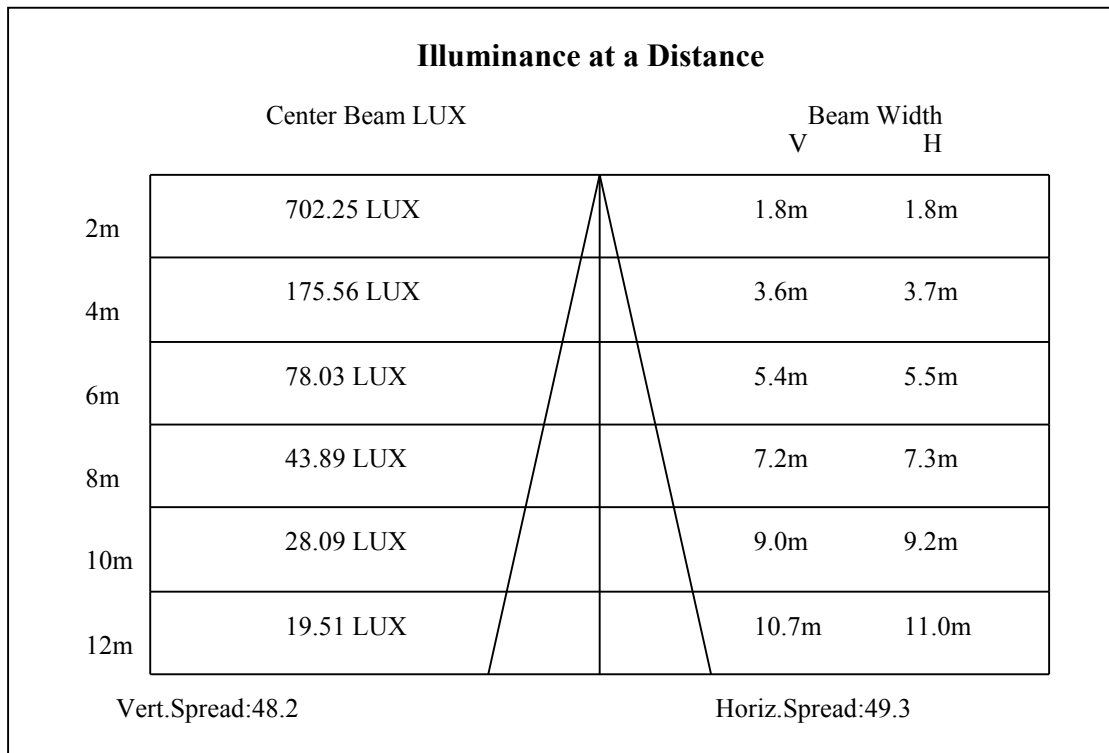
ZONAL LUMEN SUMMARY

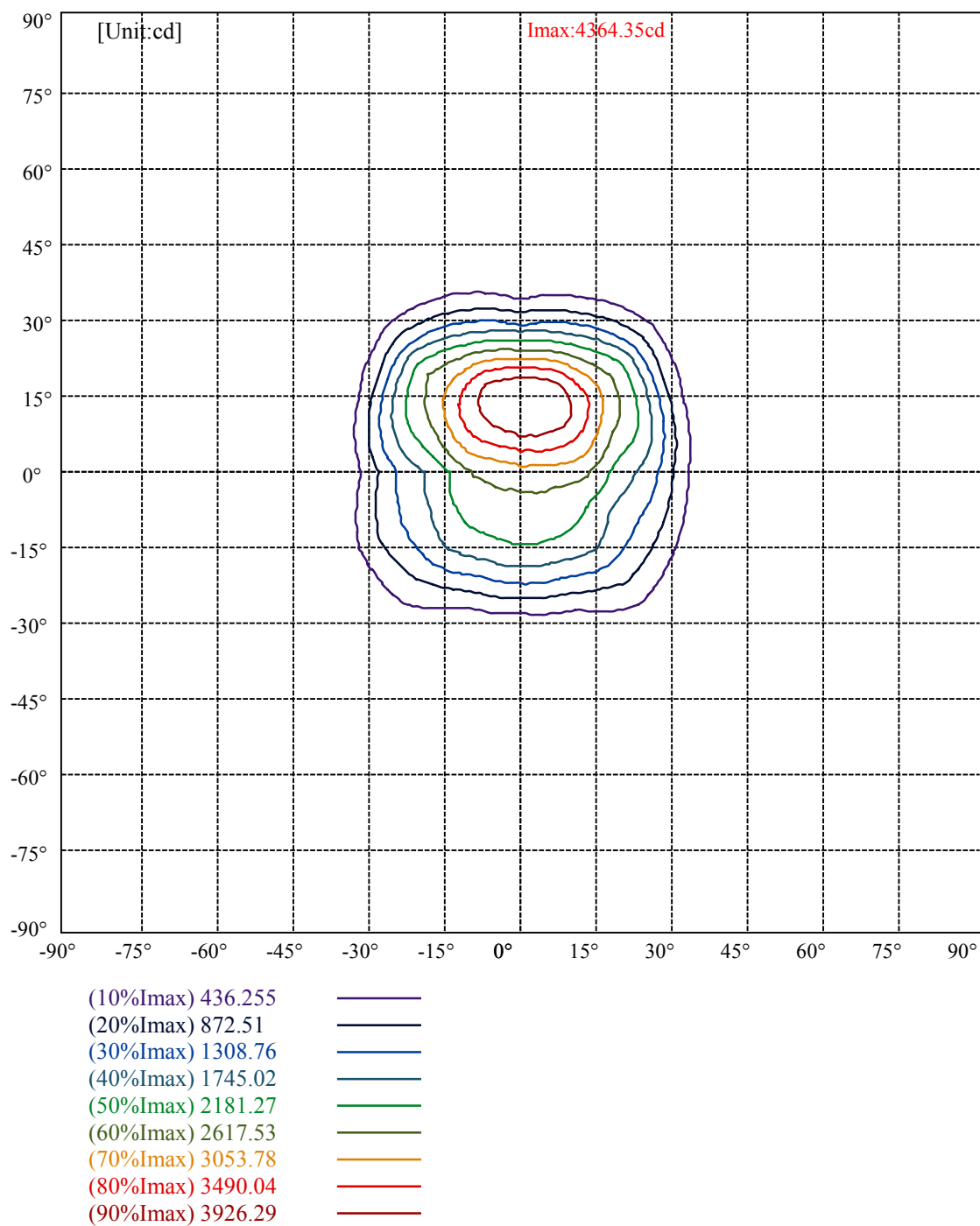
Zone	Lumens	%Lamp	%Fixt
0-30	1846.78	74.90%	84.32%
0-40	2110.74	85.60%	96.37%
0-60	2152.21	87.29%	98.27%
0-90	2189.15	88.78%	99.95%
0-120	2189.15	88.78%	99.95%
0-180	2190.19	88.83%	100.00%
60-90	38.30	1.55%	1.75%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.44	1752.15	71.06%	80.00%

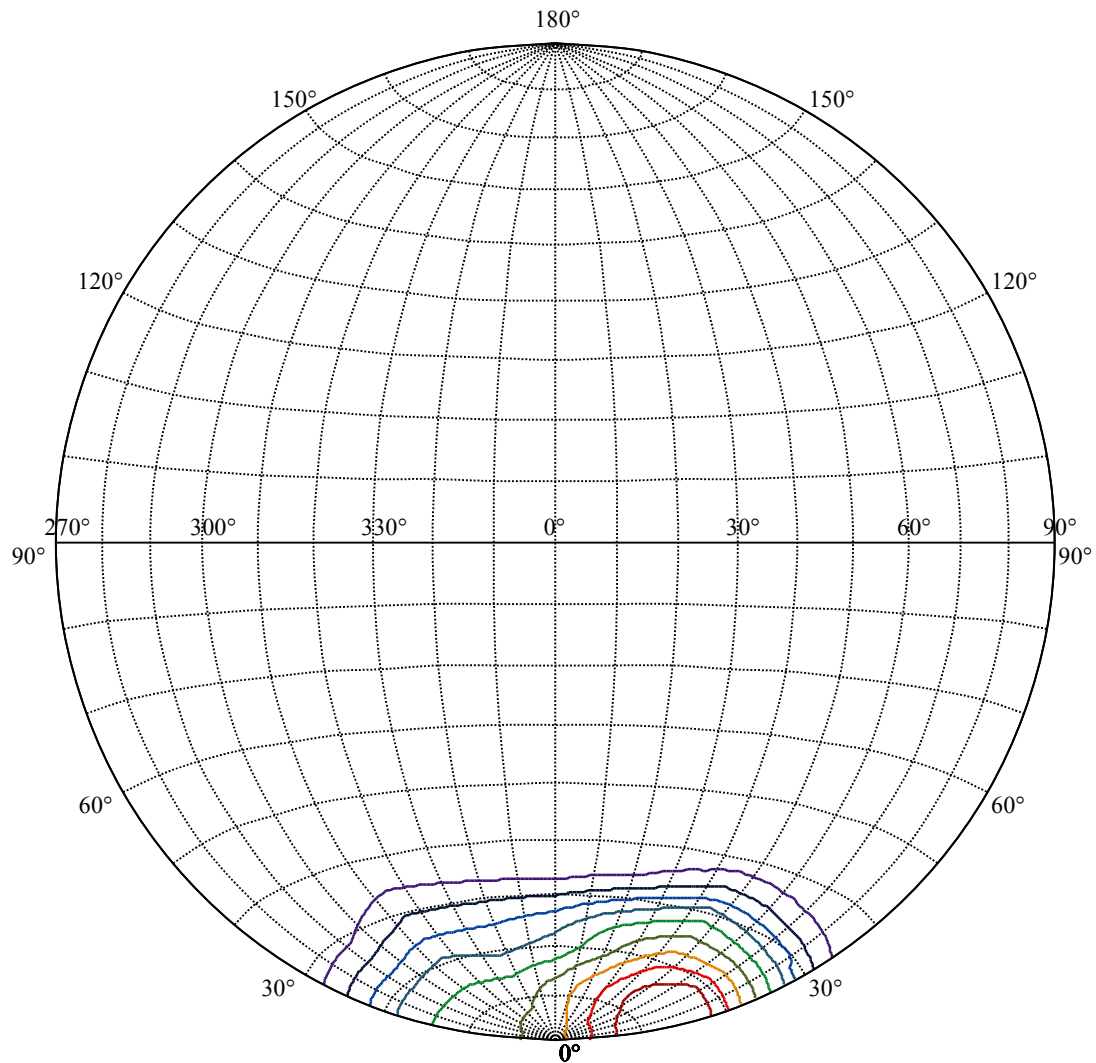
ZONAL LUMEN SUMMARY

0-10	286.31
10-20	785.13
20-30	775.34
30-40	263.96
40-50	27.03
50-60	14.44
60-70	13.43
70-80	13.16
80-90	10.36
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00









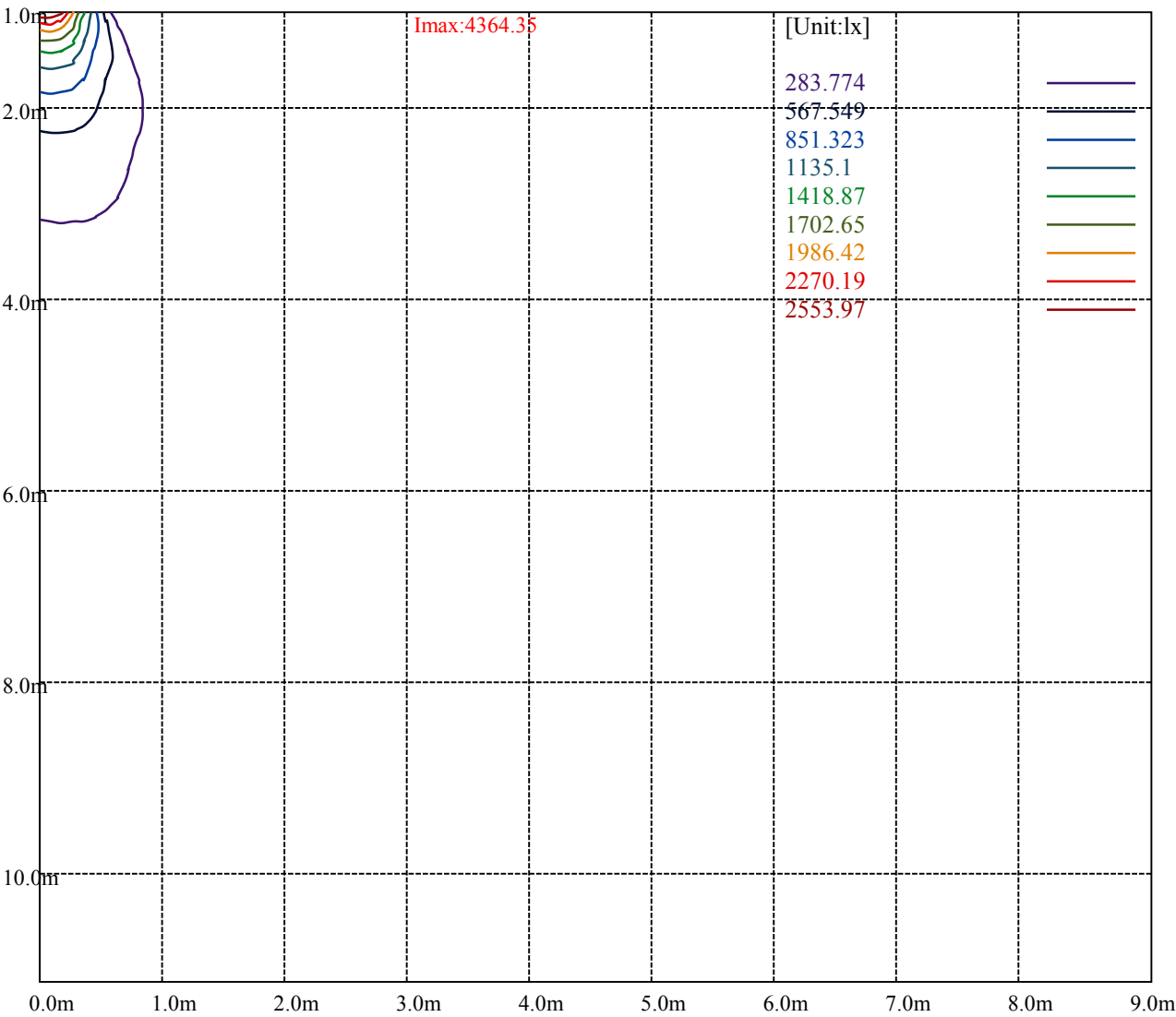
House

[Unit:cd]

Road

Imax:4364.35

(10%Imax)	436.417	—
(20%Imax)	872.833	—
(30%Imax)	1309.25	—
(40%Imax)	1745.67	—
(50%Imax)	2182.08	—
(60%Imax)	2618.5	—
(70%Imax)	3054.92	—
(80%Imax)	3491.33	—
(90%Imax)	3927.75	—



Luminance Table

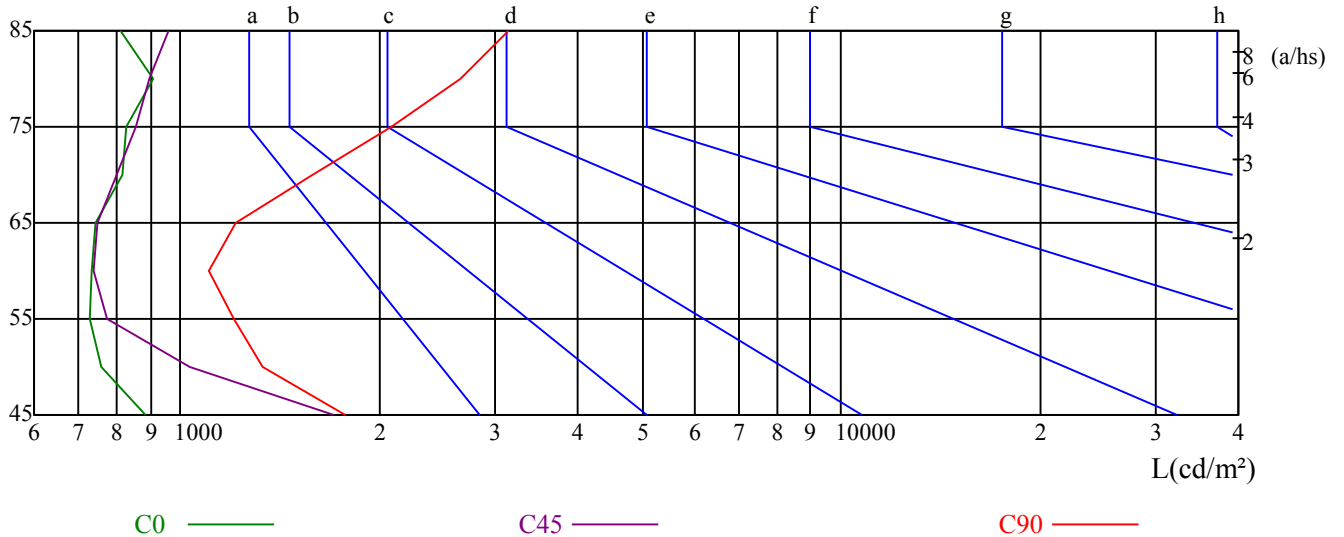
γ	45	50	55	60	65	70	75	80	85
C0	883	758	728	732	745	816	829	907	813
C45	1702	1030	774	737	750	800	854	900	959
C90	1776	1332	1207	1107	1210	1584	2085	2663	3129

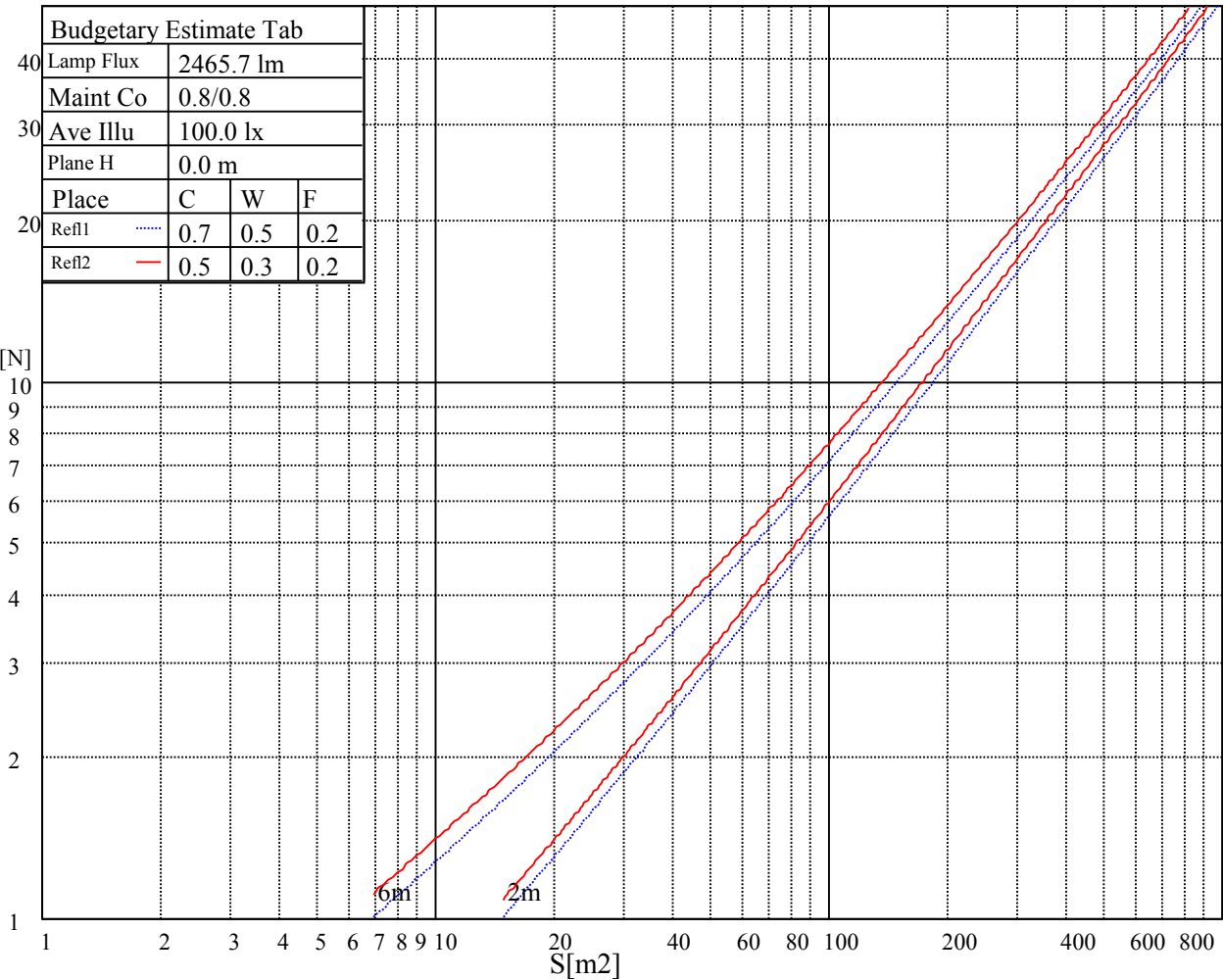
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1323	1171	1202	1958	1976	1791	4611	4450	4604

Glare Table

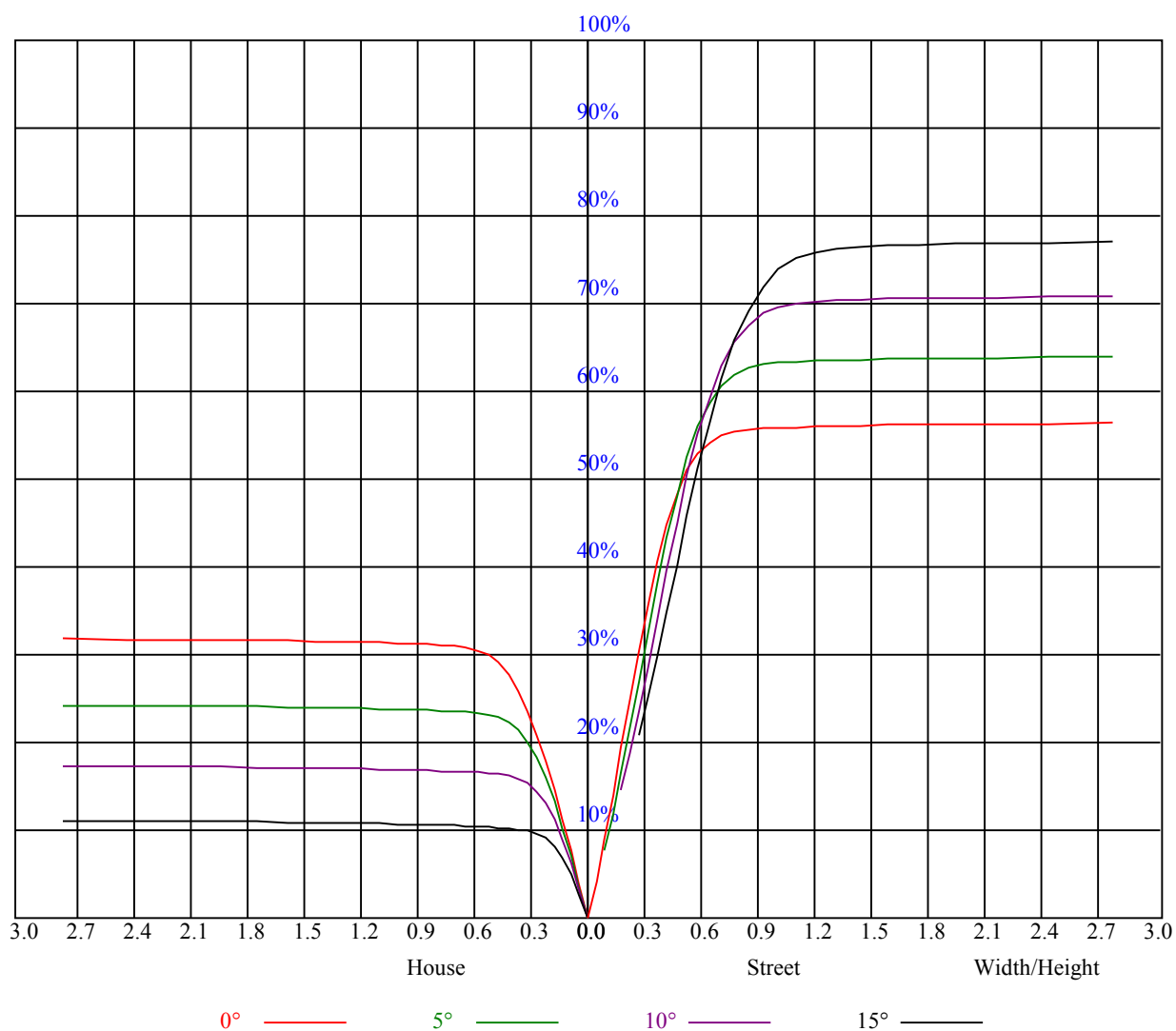
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

 $\gamma(^{\circ})$ 



RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.06	1.06	1.06	1.03	1.03	1.03	0.99	0.99	0.99	0.94	0.94	0.94	0.91	0.91	0.91	0.89
1	0.99	0.96	0.95	0.97	0.95	0.93	0.93	0.92	0.90	0.90	0.89	0.87	0.87	0.86	0.85	0.83
2	0.92	0.89	0.86	0.91	0.88	0.85	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.80	0.78
3	0.87	0.83	0.79	0.86	0.82	0.79	0.83	0.80	0.77	0.81	0.79	0.76	0.79	0.77	0.75	0.74
4	0.82	0.77	0.74	0.81	0.77	0.73	0.79	0.75	0.73	0.77	0.74	0.72	0.76	0.73	0.71	0.70
5	0.77	0.73	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.70	0.68	0.72	0.69	0.67	0.66
6	0.73	0.68	0.65	0.73	0.68	0.65	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.62
7	0.69	0.65	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.59
8	0.66	0.61	0.58	0.66	0.61	0.58	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.56
9	0.63	0.58	0.55	0.62	0.58	0.55	0.62	0.57	0.55	0.61	0.57	0.54	0.60	0.57	0.54	0.53
10	0.60	0.55	0.52	0.60	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.52	0.58	0.54	0.52	0.51



Intensity data(cd)

Appendix Page: 16 Total:19

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	2808.98	2808.98	2840.65	2864.55	2886.66	2878.30	2881.28	2884.87	2863.36
22.5	2839.46	2909.97	2984.66	3030.07	3079.66	3131.05	3188.41	3218.89	3254.74
45.0	2920.72	3006.77	3114.32	3229.64	3327.04	3439.97	3540.36	3634.17	3703.48
67.5	2866.35	2973.30	3116.71	3255.34	3406.51	3551.11	3720.81	3866.01	3964.60
90.0	2932.07	3053.97	3184.83	3353.93	3496.74	3640.15	3793.11	3940.11	4060.21
112.5	2854.40	2955.38	3081.46	3196.78	3322.86	3476.42	3607.28	3717.83	3843.31
135.0	2895.03	2949.40	3039.63	3132.84	3211.12	3303.74	3398.74	3460.89	3539.76
157.5	2827.51	2855.59	2899.21	2937.45	2978.08	2996.01	3042.02	3055.76	3091.02
180.0	2808.98	2795.84	2799.42	2796.44	2785.08	2758.19	2735.49	2717.56	2688.88
202.5	2839.46	2788.67	2755.80	2716.37	2687.69	2659.00	2627.34	2583.72	2540.69
225.0	2920.72	2825.12	2752.22	2691.27	2648.25	2623.15	2575.35	2532.93	2492.89
247.5	2866.35	2771.94	2702.62	2641.68	2596.86	2553.84	2509.02	2474.97	2451.06
270.0	2932.07	2825.71	2732.50	2673.94	2617.18	2574.75	2527.55	2488.11	2444.49
292.5	2854.40	2777.91	2713.38	2660.80	2618.37	2575.35	2545.47	2504.84	2452.86
315.0	2895.03	2807.79	2773.73	2729.51	2696.05	2659.00	2600.45	2551.45	2509.02
337.5	2827.51	2804.80	2794.05	2781.50	2748.63	2724.13	2686.49	2642.27	2598.06
360.0	2808.98	2808.98	2840.65	2864.55	2886.66	2878.30	2881.28	2884.87	2863.36
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2860.97	2838.26	2786.28	2748.04	2681.71	2565.19	2449.27	2362.63	2229.38
22.5	3299.56	3312.70	3305.53	3297.76	3247.57	3179.45	3102.37	2999.00	2898.61
45.0	3751.29	3807.45	3870.79	3897.68	3901.86	3890.51	3853.46	3787.74	3702.89
67.5	4090.09	4168.96	4250.22	4304.60	4348.22	4364.35	4351.80	4317.15	4200.03
90.0	4163.58	4265.16	4308.78	4335.67	4353.60	4355.99	4336.27	4262.77	4145.06
112.5	3953.25	4029.14	4085.31	4117.57	4137.89	4169.56	4178.52	4141.47	4064.99
135.0	3612.66	3664.05	3699.90	3708.86	3713.05	3685.56	3630.59	3594.14	3504.51
157.5	3108.35	3137.62	3109.54	3071.90	3018.12	2937.45	2847.82	2748.04	2667.97
180.0	2676.93	2580.13	2512.61	2411.03	2309.45	2171.42	2077.01	1970.65	1883.41
202.5	2504.84	2446.88	2426.57	2368.01	2294.51	2215.64	2118.84	2025.62	1933.60
225.0	2442.10	2395.49	2352.47	2298.10	2248.50	2208.47	2175.60	2121.23	2063.27
247.5	2415.21	2366.21	2316.02	2263.44	2219.22	2164.25	2109.87	2029.21	1927.03
270.0	2409.24	2357.85	2320.21	2281.96	2240.73	2198.31	2138.56	2050.12	1932.41
292.5	2409.24	2369.20	2322.00	2283.76	2246.71	2204.28	2148.12	2060.28	1947.94
315.0	2474.37	2412.22	2371.59	2341.12	2288.54	2235.36	2187.55	2136.17	2072.83
337.5	2558.02	2495.28	2447.48	2396.69	2312.44	2246.71	2147.52	2053.71	1959.90
360.0	2860.97	2838.26	2786.28	2748.04	2681.71	2565.19	2449.27	2362.63	2229.38
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2107.48	2001.12	1904.32	1842.78	1788.40	1717.90	1634.84	1536.84	1423.31
22.5	2790.46	2647.65	2569.97	2515.00	2461.82	2402.66	2322.00	2180.38	2060.28
45.0	3606.69	3510.48	3393.96	3237.41	3081.46	2961.95	2816.15	2695.45	2558.02
67.5	4064.39	3913.22	3693.92	3485.39	3244.58	3012.74	2762.38	2555.63	2327.97
90.0	3988.51	3781.16	3564.26	3297.76	3030.07	2798.83	2546.07	2301.68	2084.78
112.5	3969.98	3841.51	3652.69	3460.89	3259.52	3020.51	2800.62	2601.64	2397.29
135.0	3426.83	3321.66	3205.15	3079.07	2978.68	2900.41	2782.69	2705.61	2614.19
157.5	2561.61	2498.87	2442.70	2391.91	2332.16	2282.56	2179.79	2083.58	1963.48
180.0	1803.94	1739.41	1661.73	1596.60	1533.26	1443.63	1348.03	1189.38	1120.55
202.5	1860.11	1750.16	1674.87	1596.00	1527.28	1467.53	1417.94	1326.51	1247.04
225.0	1986.78	1909.70	1804.54	1693.40	1601.98	1524.30	1387.46	1270.94	1177.13
247.5	1811.71	1694.59	1576.28	1429.89	1279.31	1189.14	1023.45	892.23	763.04
270.0	1813.50	1685.63	1559.55	1440.64	1285.88	1129.93	968.00	821.60	678.20
292.5	1835.01	1741.80	1624.68	1492.63	1368.34	1177.85	1092.16	943.26	802.66
315.0	2010.69	1916.87	1836.21	1750.76	1650.38	1544.61	1428.69	1298.43	1210.00
337.5	1861.30	1740.60	1658.74	1582.26	1508.76	1448.41	1380.29	1293.65	1186.87
360.0	2107.48	2001.12	1904.32	1842.78	1788.40	1717.90	1634.84	1536.84	1423.31

Intensity data(cd)										Appendix Page: 17 Total:19	
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0		
0.0	1285.88	1152.04	993.69	850.28	687.76	531.80	412.89	307.73	217.86		
22.5	1904.32	1713.12	1521.31	1324.12	1071.37	871.20	695.52	516.86	388.39		
45.0	2444.49	2296.30	2119.44	1937.79	1732.83	1480.68	1181.08	1086.73	860.86		
67.5	2130.19	1913.29	1688.62	1491.43	1269.75	1063.60	879.56	743.92	560.48		
90.0	1852.94	1582.85	1181.37	1153.65	915.89	717.93	558.87	397.78	308.32		
112.5	2143.34	1937.19	1734.63	1522.50	1315.76	1134.71	950.67	794.12	662.66		
135.0	2479.15	2325.58	2159.47	1980.21	1787.81	1558.36	1191.53	1111.34	900.30		
157.5	1820.67	1655.75	1483.66	1272.14	1045.08	861.64	665.65	511.48	355.53		
180.0	986.40	843.47	710.10	572.07	448.21	326.97	232.56	168.26	118.25		
202.5	1186.51	1089.06	998.83	907.83	807.44	698.81	596.27	486.69	388.04		
225.0	1046.87	944.10	862.83	758.86	669.23	602.31	506.11	430.22	359.11		
247.5	614.80	473.54	371.30	284.84	224.79	173.82	134.80	110.66	93.87		
270.0	554.51	393.77	305.93	225.33	172.92	140.66	118.55	100.33	88.14		
292.5	675.45	533.53	419.70	333.84	262.67	192.05	145.50	111.86	82.40		
315.0	1124.55	1010.42	920.19	835.35	739.74	642.34	559.29	469.66	386.60		
337.5	1120.13	1018.55	909.74	810.91	695.94	575.06	471.51	374.89	276.66		
360.0	1285.88	1152.04	993.69	850.28	687.76	531.80	412.89	307.73	217.86		
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0		
0.0	151.00	101.22	58.98	44.58	39.74	34.84	28.56	25.51	24.20		
22.5	311.31	153.39	99.67	69.01	51.57	42.60	36.69	30.65	28.98		
45.0	711.42	561.92	421.26	304.80	231.60	168.14	124.17	86.28	58.02		
67.5	447.55	363.30	304.14	189.42	143.29	107.08	79.05	67.64	56.23		
90.0	240.80	171.43	135.70	101.04	81.86	73.14	63.28	44.46	37.94		
112.5	532.40	419.47	323.86	302.35	181.71	135.22	89.15	76.18	63.94		
135.0	704.96	565.26	439.72	308.62	227.48	164.74	112.34	71.82	47.09		
157.5	309.52	139.22	91.24	54.85	44.70	37.76	30.71	27.84	26.53		
180.0	66.50	47.09	39.74	33.46	28.50	25.22	23.72	22.41	21.57		
202.5	292.91	215.05	159.66	108.45	63.58	43.08	34.24	29.40	25.51		
225.0	308.32	212.00	157.33	102.06	72.54	52.52	36.21	30.12	26.05		
247.5	82.88	68.72	52.52	37.23	32.15	28.02	23.84	20.79	18.64		
270.0	74.21	61.43	55.51	52.58	49.24	43.02	35.61	30.59	26.23		
292.5	67.10	57.66	43.92	32.27	25.75	23.00	21.33	19.42	17.51		
315.0	314.30	261.42	176.75	123.03	84.01	57.96	40.75	28.38	24.20		
337.5	212.12	156.25	101.28	60.17	41.11	34.00	30.06	25.39	20.73		
360.0	151.00	101.22	58.98	44.58	39.74	34.84	28.56	25.51	24.20		
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0		
0.0	23.12	22.23	21.51	20.67	19.78	19.12	18.64	18.22	17.75		
22.5	27.37	25.81	24.68	23.78	22.59	21.51	20.73	20.02	19.42		
45.0	41.35	34.48	30.77	27.90	25.28	23.84	22.35	20.79	18.94		
67.5	45.35	31.55	27.79	25.81	24.20	22.05	20.67	19.54	18.40		
90.0	33.34	30.12	28.32	26.23	24.38	22.89	21.93	20.97	19.84		
112.5	49.36	32.98	29.70	26.41	24.50	23.00	21.09	19.84	18.64		
135.0	32.63	28.56	25.28	21.81	20.97	20.26	18.58	17.57	16.91		
157.5	25.39	24.02	23.06	22.05	21.21	20.38	19.54	18.94	18.16		
180.0	20.97	20.44	19.66	18.70	18.16	17.57	17.09	16.61	16.37		
202.5	21.93	20.97	20.44	19.84	19.24	18.70	18.28	17.69	17.15		
225.0	22.05	19.18	18.34	17.87	17.27	16.67	16.19	16.01	15.36		
247.5	17.15	16.37	15.77	15.18	14.82	14.40	14.04	13.86	13.62		
270.0	22.53	19.90	18.52	17.63	17.15	16.61	16.01	15.36	14.94		
292.5	16.37	15.54	14.70	14.28	13.86	13.38	13.21	12.97	12.73		
315.0	21.51	18.88	17.45	17.03	16.31	15.83	15.77	15.12	15.00		
337.5	19.96	19.30	18.70	18.28	17.93	17.45	16.97	16.49	16.01		
360.0	23.12	22.23	21.51	20.67	19.78	19.12	18.64	18.22	17.75		

Intensity data(cd)

Appendix Page: 18 Total:19

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	17.69	17.51	17.27	16.97	16.85	16.73	16.61	16.79	16.91
22.5	18.88	18.52	18.16	17.81	17.51	17.33	17.21	17.03	16.91
45.0	17.69	16.91	16.31	15.89	15.54	15.24	15.00	14.82	14.58
67.5	17.75	17.15	16.67	16.19	15.77	15.36	14.82	14.52	14.28
90.0	18.94	18.64	18.52	17.15	16.55	15.66	15.06	14.70	14.52
112.5	17.81	17.21	16.61	16.19	15.77	15.36	14.82	14.46	14.10
135.0	16.25	15.77	15.42	14.94	14.70	14.40	14.16	13.86	13.68
157.5	17.69	17.09	16.67	16.19	15.89	15.54	15.12	14.88	14.58
180.0	16.07	15.89	15.54	15.00	14.64	14.52	14.28	13.86	13.56
202.5	16.67	16.31	15.89	15.60	15.24	15.00	14.76	14.58	14.40
225.0	14.94	14.64	14.28	13.92	13.74	13.62	13.27	13.21	13.15
247.5	13.32	13.15	12.91	12.73	12.61	12.49	12.37	12.19	12.07
270.0	14.58	14.16	13.62	13.03	12.61	12.43	12.25	12.07	11.83
292.5	12.55	12.37	12.19	12.01	11.95	11.83	11.77	11.71	11.59
315.0	14.88	14.10	13.74	13.15	12.97	12.73	12.61	12.67	12.61
337.5	15.60	15.30	15.00	14.82	14.64	14.58	14.70	14.76	14.94
360.0	17.69	17.51	17.27	16.97	16.85	16.73	16.61	16.79	16.91
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	16.67	16.25	15.77	15.54	16.01	16.19	16.01	15.89	15.30
22.5	16.85	16.67	16.37	16.19	16.07	16.13	16.19	16.13	15.89
45.0	14.40	14.22	14.04	13.92	13.80	13.68	13.62	13.56	13.38
67.5	14.04	13.86	13.68	13.50	13.32	13.21	13.09	12.97	12.91
90.0	14.34	14.22	14.10	14.10	14.16	14.22	14.58	15.24	15.95
112.5	13.74	13.44	13.09	12.91	12.73	12.55	12.37	12.25	12.07
135.0	13.50	13.27	13.09	12.91	12.67	12.49	12.31	12.13	11.95
157.5	14.22	13.86	13.62	13.38	13.09	12.79	12.61	12.43	12.31
180.0	13.32	13.09	12.91	12.79	12.55	12.49	12.19	12.01	11.83
202.5	14.34	14.22	14.04	13.86	13.62	13.50	13.27	12.97	12.85
225.0	12.91	12.79	12.55	12.61	12.61	12.43	12.31	12.19	12.07
247.5	12.01	11.89	11.83	11.65	11.59	11.47	11.41	11.29	11.23
270.0	11.71	11.47	11.29	11.17	11.11	10.99	10.93	10.88	10.82
292.5	11.53	11.59	11.65	11.53	11.35	11.11	10.99	10.93	10.88
315.0	12.31	12.37	12.43	12.13	12.43	12.19	12.55	12.49	12.43
337.5	14.94	14.88	14.76	14.64	14.58	14.46	14.58	14.58	14.34
360.0	16.67	16.25	15.77	15.54	16.01	16.19	16.01	15.89	15.30
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.12	15.48	15.48	14.64	14.64	14.94	14.28	14.70	14.22
22.5	15.83	15.95	15.66	15.42	15.42	15.12	15.12	14.76	14.46
45.0	13.32	13.21	13.03	12.85	12.67	12.43	12.25	11.89	11.71
67.5	12.91	12.67	12.37	12.07	11.95	11.71	11.59	11.47	11.35
90.0	16.37	16.43	16.19	15.66	15.54	15.89	15.30	14.52	14.22
112.5	11.95	11.83	11.71	11.59	11.47	11.41	11.35	11.29	11.23
135.0	11.77	11.59	11.47	11.35	11.23	11.17	11.11	10.93	10.76
157.5	12.25	12.07	11.95	11.83	11.71	11.65	11.59	11.53	11.47
180.0	11.65	11.59	11.53	11.35	11.23	11.17	11.29	11.17	10.88
202.5	12.61	12.43	12.31	12.19	11.95	11.71	11.59	11.41	11.29
225.0	11.95	11.77	11.53	11.47	11.35	11.29	11.23	10.99	10.93
247.5	11.11	11.05	10.99	10.88	10.82	10.76	10.70	10.64	10.58
270.0	10.70	10.64	10.64	10.58	10.52	10.46	10.46	10.40	10.40
292.5	10.76	10.76	10.76	10.88	10.64	10.46	10.40	10.34	10.28
315.0	12.67	12.31	12.01	11.89	11.89	11.83	11.53	11.59	11.35
337.5	14.10	13.80	13.98	14.04	13.92	13.56	13.74	13.32	13.27
360.0	15.12	15.48	15.48	14.64	14.64	14.94	14.28	14.70	14.22

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Intensity data(cd)										Appendix Page: 19 Total:19	
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	14.10	14.04	13.44	12.25	11.05	11.05	10.99	9.44	9.20		
22.5	13.62	12.73	12.25	12.13	12.01	10.58	10.40	10.22	10.10		
45.0	11.53	11.47	11.41	11.41	10.46	10.28	10.16	10.04	9.98		
67.5	11.05	10.76	10.64	10.58	10.22	10.04	9.92	9.80	9.62		
90.0	13.62	11.95	11.05	10.52	9.80	9.56	9.44	9.32	9.32		
112.5	11.23	11.17	11.23	11.35	9.74	9.62	9.44	9.32	9.26		
135.0	10.70	10.64	10.64	9.80	9.62	9.50	9.32	9.14	9.14		
157.5	11.23	10.88	10.52	9.98	9.68	9.50	9.26	9.14	9.02		
180.0	10.88	10.46	10.04	9.62	9.56	9.32	9.20	8.96	8.96		
202.5	11.23	11.11	11.05	10.93	10.82	10.64	10.52	10.40	10.28		
225.0	10.82	10.76	10.70	10.64	10.58	10.40	10.34	10.28	10.16		
247.5	10.52	10.52	10.40	10.34	10.28	10.10	10.04	9.98	9.80		
270.0	10.40	10.34	10.28	10.22	10.10	9.86	9.74	9.62	9.44		
292.5	10.16	10.04	9.86	9.80	9.74	9.68	9.56	9.44	9.38		
315.0	11.05	10.88	10.58	10.46	10.52	10.46	9.80	9.44	9.38		
337.5	12.97	12.49	11.71	10.82	10.64	10.64	9.50	9.38	9.20		
360.0	14.10	14.04	13.44	12.25	11.05	11.05	10.99	9.44	9.20		
C/γ(°)	90.0										
0.0	9.02										
22.5	10.10										
45.0	9.98										
67.5	9.62										
90.0	9.32										
112.5	9.20										
135.0	9.14										
157.5	9.08										
180.0	8.90										
202.5	10.16										
225.0	10.10										
247.5	9.68										
270.0	9.38										
292.5	9.26										
315.0	9.26										
337.5	9.08										
360.0	9.02										